# RO 30

kV dependent max mA values for exposure times ≤ 100ms in combination with Optimus 50/65/80kW

| kV | SF [µA] | LF [µA] | kV | SF [µA] | LF [µA] | kV | SF [µA] | LF [µA] | kV | SF [µA] | LF [µA] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | | 380000 | 70 | | 428571 | **100** | | **300000** | 130 | | 230769 |
| 41 | | 390000 | 71 | | 422535 | 101 | | 297029 | 131 | | 229007 |
| 42 | | 400000 | 72 | | 416666 | 102 | | 294117 | 132 | | 227272 |
| 43 | | 410000 | 73 | | 410958 | 103 | | 291262 | 133 | | 225563 |
| 44 | | 420000 | 74 | | 405405 | 104 | | 288461 | 134 | | 223880 |
| 45 | | 430000 | 75 | | 400000 | 105 | | 285714 | 135 | | 222222 |
| 46 | | 438000 | 76 | | 394736 | 106 | | 283018 | 136 | | 220588 |
| 47 | | 446000 | 77 | | 389610 | 107 | | 280373 | 137 | | 218978 |
| 48 | | 454000 | 78 | | 384615 | 108 | | 277777 | 138 | | 217391 |
| 49 | | 462000 | 79 | | 379746 | 109 | | 275229 | 139 | | 215827 |
| 50 | | 470000 | 80 | | 375000 | 110 | | 272727 | 140 | | 214285 |
| 51 | | 477000 | 81 | | 370370 | 111 | | 270270 | 141 | | 212765 |
| 52 | | 484000 | 82 | | 365853 | 112 | | 267857 | 142 | | 211267 |
| 53 | | 491000 | 83 | | 361445 | 113 | | 265486 | 143 | | 209790 |
| 54 | | 498000 | 84 | | 357142 | 114 | | 263157 | 144 | | 208333 |
| 55 | | 505000 | 85 | | 352941 | 115 | | 260869 | 145 | | 206896 |
| 56 | | 509080 | 86 | | 348837 | 116 | | 258620 | 146 | | 205479 |
| 57 | | 513160 | 87 | | 344827 | 117 | | 256410 | 147 | | 204081 |
| 58 | | 517241 | 88 | | 340909 | 118 | | 254237 | 148 | | 202702 |
| 59 | | 508474 | 89 | | 337078 | 119 | | 252100 | 149 | | 201342 |
| 60 | | 500000 | 90 | | 333333 | 120 | | 250000 | 150 | | 200000 |
| 61 | | 491803 | 91 | | 329670 | 121 | | 247933 | | | |
| | | 483870 | 92 | | 326086 | 122 | | 245901 | | | |
| | | 476190 | 93 | | 322580 | 123 | | 243902 | | | |
| | | 468750 | 94 | | 319148 | 124 | | 241935 | | | |
| | | 461538 | 95 | | 315789 | 125 | | 240000 | | | |
| | | 454545 | 96 | | 312500 | 126 | | 238095 | | | |
| | | 447761 | 97 | | 309278 | 127 | | 236220 | | | |
| | | 441176 | 98 | | 306122 | 128 | | 234375 | | | |
| | | 434782 | 99 | | 303030 | 129 | | 232558 | | | |

These are the default values of the tube data file TUBE_R2.TDL or TUBE_R3.TDL.
Typically there are no changes after adaptation except there are reductions due to the max generator power (Optimus 50kW = 650mA max) or if the filament does not have its full emission anymore (e.g. from shorted filament loops).
The red marked emission current value (at 58kV LF) are the max emission currents at a kV value from which on the filament current can be reduced to achieve its max load performance.